NOVEMBER/DECEMBER 2023

CCA52/CCS52/CSC52 — OPERATING SYSTEM

Time : Three hours Maximum : 75 marks

SHANMUGA INDUSTRIES ARTS & SCIENCE COLLEGE LIBRARY

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List out any two information management system calls.

2. Define IPC.

3. What are the types of scheduler?

4. Define Deadlock.

5. What is External Fragmentation?

6. How is memory protected in a paged environment?

7. What is a file?

8. List the various file Attributes.

9. What is Linux and why it is used?

10. How does file system work?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write a detailed note on process state.

Or

(b) Discuss on I/O structure.

12. (a) List the Advantages and disadvantages of Deadlock.

Or

(b) What do you mean by Deadlock Avoidance? Discuss.

13. (a) Elaborate on the fixed partition memory.

Or

(b) Explain the protection concept.

14. (a) What is disk and explain its types?

Or

(b) What is RAID? List and discuss the types of RAID.

15. (a) What are the types of memory management in OS? Explain.

Or

(b) Explain five basic components of Linux.

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SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. List the various services provided by operating systems.

17. Discuss on Deadlock prevention.

18. Describe about the page Replacement Algorithm.

19. Explain free space management.

20. Elaborate on security in LINUX system.

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